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discussion contained in his advanced lectures of this year on the high voltage alternating transmission and utilization of power. Professor Jackson's lectures for graduate students on the organization and administration of public service companies have this year dealt more particularly with questions of value of plant, the theory of so-called intangible values, the relation of revenues to value of the plant, depreciation, and the like; and next year the lectures will be directed more to the theory underlying methods of charging for service by public service companies, with particular reference to charges for electric light and power, but with collateral consideration of railroad and tramway charges and charges for gas and the service of other public utilities. Professor Wickenden will give a course of lectures on illumination, photometry and illuminating engineering which will become a part of the optional curriculum for undergraduate and graduate students.

MR. L. L. HUTCHISON, assistant director of the Oklahoma Geological Survey, has sent to press a special state report on the asphalt, oil and gas deposits of Oklahoma. In part one is a general map which shows that portion of the state in which asphalt occurs and the region where it is likely to be found. It also contains a geological map of the asphalt bearing district, and one showing the exact location of nearly one hundred known deposits. Part two is devoted to oil and gas. After reviewing the history of the industry and discussing the various theories of origin and accumulation of petroleum and natural gas, Mr. Hutchison discusses the geology of the Oklahoma petroleum and natural gas fields and closes the work with a chapter devoted to the latest Oklahoma statistics and a review of past and present conditions in the field. This section of the report is illustrated by a general map showing the present developed areas, probable territory yet undeveloped, and those parts of the state where it seems possible that oil and gas may be found and by a geological map of the oil fields and detailed maps, on a scale of one inch to the mile, which give the location of every well drilled in the various important fields prior to 1910.

THE Connecticut Agricultural College and the Willimantic State Normal School will hold their summer schools in the buildings of the State Agricultural College at Storrs, Conn., July 5-July 29, 1910. The Agricultural College offers courses in bird and insect study, botany, dairy industry, animal husbandry, school gardening, fruit culture, floriculture, landscape gardening, soils, farm crops, practical cooking, a special four-weeks' course in practical poultry husbandry, and a course in elementary agriculture with a model country school showing how agriculture may actually be taught in the schools. The Normal School offers courses for teachers in arithmetic, civics, geography, history, language, methods in rural schools, penmanship, psychology and reading.

PROFESSOR J. W. H. TRAIL, F.R.S., recently offered to the council of the Linnean Society a sum of money for the purpose of encouraging the study of protoplasm by means of an award to be made periodically, and, as we learn from *Nature*, a special medal has been struck in bronze for presentation with the award, bearing on the obverse a portrait of Linnæus and on the reverse the words "Trail Award" and the name of the recipient in a wreath. It is proposed to make an award about once in every five years for original work bearing directly or indirectly upon the "physical basis of life," and, in accordance with the wishes of the donor, a wide interpretation will be given to the scope of the investigations. The first recipient of the award will be Professor E. A. Minchin, professor of protozoology in the University of London, whose researches on sponges and protozoa have done so much to advance our knowledge of protoplasmic structures, and who is also the translator of Professor Bütschli's well-known work on protoplasm.

UNIVERSITY AND EDUCATIONAL NEWS

MORE than \$2,000,000 has been contributed to Washington University, St. Louis, for the medical department. The donors are Messrs. William K. Bixby, Adolphus Busch, Edward Mallinckrodt and Robert S. Brookings. Added to this are the resources of Barnes

University, recently absorbed; the Martha Parsons Hospital and the original endowment fund of the university. New appointments have been announced as follows: Dr. George Dock, of Tulane University; Dr. John Howland, of the University and Bellevue Hospital Medical College; Dr. Eugene L. Opie, of the Rockefeller Institute for Medical Research, and Dr. Joseph Erlanger, of the University of Wisconsin. Construction of new buildings, to cost more than \$1,000,000, will begin at once.

By the will of Stanley O. Thomas, recently probated, Tulane University received a legacy of \$60,000, to be used for the erection of a building.

MR. R. A. BOOTH will give the Willamette University, of Salem, Ore., \$100,000 as an endowment fund on the condition that the institution raises \$300,000 more from other sources.

ACTING upon the suggestion of representatives of the Carnegie Foundation, plans are being completed to merge the medical school of Ohio Wesleyan University with that of Western Reserve University, both of which are located in Cleveland. The students and part of the faculty of the College of Physicians and Surgeons will by this consolidation be transferred to the Western Reserve Medical School, while Ohio Wesleyan University, of which the College of Physicians and Surgeons now is a department, will sever all connections with the Cleveland school.

At the annual business meeting of the board of regents of the University of Wisconsin Eric W. Miller, of the U. S. Weather Bureau station at Madison, was made lecturer in meteorology; Professor J. D. Phillips, of the engineering drawing department, was made assistant dean of the college of engineering; Max Mason was promoted to be professor of mathematical physics from an associate professorship of mathematics. The following were promoted from assistant professor to associate professor: E. B. Skinner, in mathematical physics; L. R. Ingersoll, in physics; E. V. McCollum, in agricultural chemistry, and J. G. Moore, in horticulture.

Promotions from the instructor to assistant professor were made as follows: C. A. Fuller, in bacteriology; W. J. Mead, in geology; H. C. Wolff, in mathematics; W. H. Brown, in pathology; E. M. Terry, in physics; W. J. Meek, in physiology; W. E. Tottingham, in agricultural chemistry; E. J. Dolwiche and A. L. Stone, in agronomy; G. H. Benkendorf, in dairy husbandry, and J. H. Price, in electrical engineering.

AT Columbia University Dr. Edward Kasner has been promoted to a professorship of mathematics, Dr. Russell-Burton Opitz, to be associate professor of physiology and Dr. Raymond C. Osburne to be assistant professor of zoology in Barnard College.

DR. R. DEC. WARD has been promoted to a chair of climatology at Harvard University.

RECENT additions to the faculty of the University of North Dakota are George Alonzo Abbott, Ph.D. (Massachusetts Institute of Technology), professor of chemistry, and Bartholomew J. Spence, Ph.D. (Princeton), assistant professor of physics.

MR. J. A. SMITH has been elected to the Waynflete chair of moral and metaphysical philosophy in the University of Oxford, to fill the vacancy caused by the resignation of Professor T. Case.

DISCUSSION AND CORRESPONDENCE
THE UNIVERSITY OF MINNESOTA AND THE
CARNEGIE FOUNDATION

TO THE EDITOR OF SCIENCE: The following report from the *Minneapolis Journal* of speeches made after a dinner of the Faculty Club of the University of Minnesota has been corrected by the speakers and is forwarded to SCIENCE for publication. The resolutions referred to have been prepared by the executive committee and forwarded to the trustees of the foundation.

X.
UNIVERSITY OF MINNESOTA,
April 29, 1910

Decided protest against the action of the trustees of the Carnegie Foundation in substituting complete disability for the twenty-